AMENDMENTS TO THE CLAIMS

1. An ionic liquid comprising:

at least one ~~anion represented by $[BF_3(C_nF_{2n+1})]^-$ wherein n represents 1, 2, 3 or 4; and at least one organic ammonium ion represented by general formula (I):~~

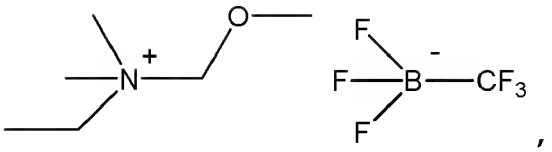
~~$[NR^1R^2R^3R^4]^+$ (I)~~

~~wherein R^1 to R^4 are the same or different, each representing an alkyl, fluoroalkyl, alkoxy, polyether, or alkoxyalkyl group, or R^1 and R^2 taken together with the nitrogen atom may form a pyrrolidine, piperidine, or morpholine ring; provided that R^1 to R^4 satisfy the conditions (i) through (iii) shown below:~~

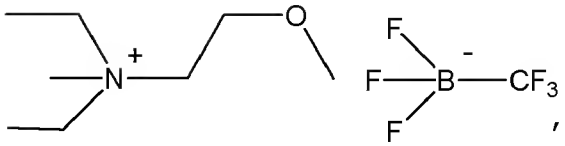
~~(i) when R^1 and R^2 taken together with the nitrogen atom form a pyrrolidine, piperidine, or morpholine ring, either R^3 or R^4 is an alkyl group with 3 or more carbon atoms or alkoxyalkyl group;~~

~~(ii) when R^1 and R^2 do not form a pyrrolidine, piperidine or morpholine ring, at least one of R^1 to R^4 is an alkoxy, polyether or alkoxyalkyl group; and~~

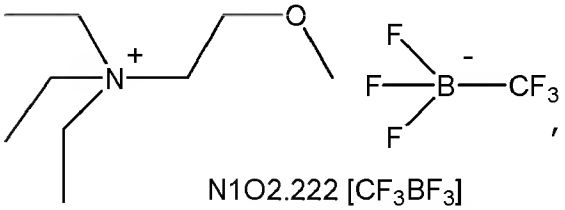
~~(iii) when R^1 to R^3 are the same or different, each being methyl or ethyl, R^4 is a C_{3-10} linear or branched alkyl group~~ member selected from the group consisting of



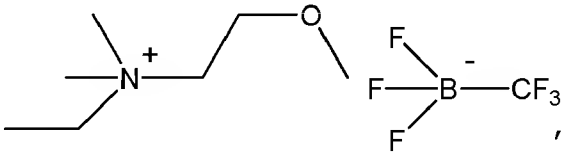
N1O1.112 [CF_3BF_3]



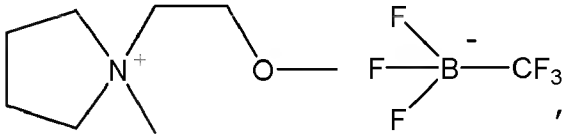
N1O2.122 [CF_3BF_3]



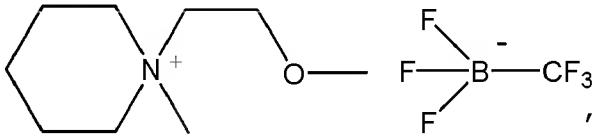
N1O2.222 [CF_3BF_3]



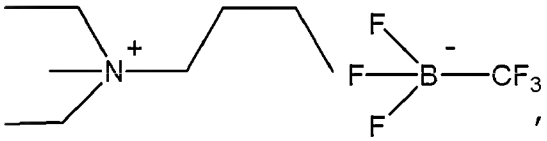
N1O2.112 [CF_3BF_3]



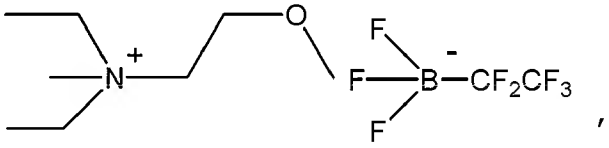
Py1O2.1 [CF_3BF_3]



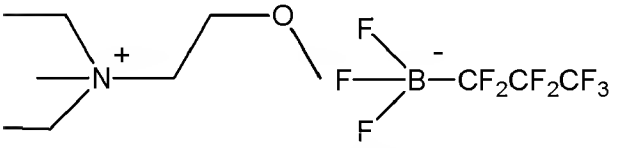
Pi1O2.1 [CF_3BF_3]



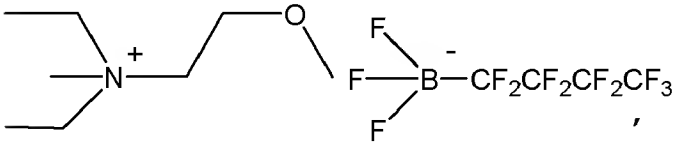
N1224 [CF_3BF_3]



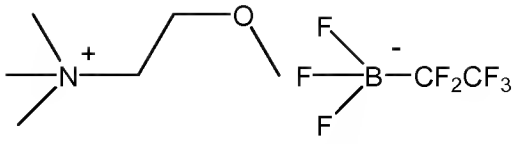
N1O2.122 [$C_2F_5BF_3$]



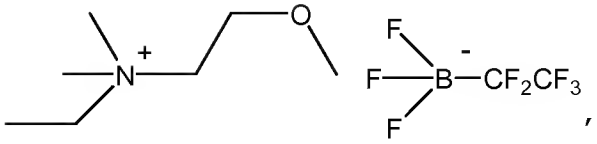
N1O2.122 [n-$C_3F_7BF_3$]



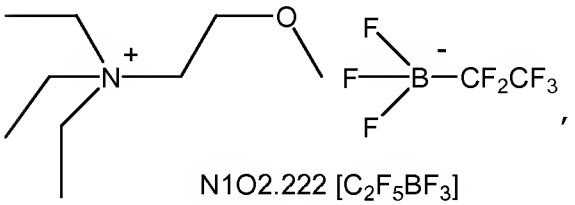
N1O2.122 [n-$C_4F_9BF_3$]



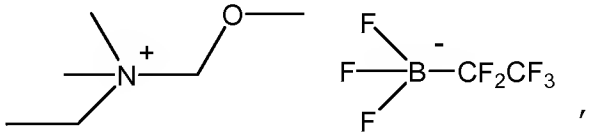
N1O2.111 [$C_2F_5BF_3$]



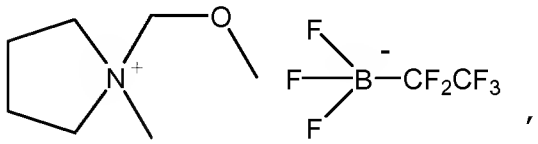
N1O2.112 [$C_2F_5BF_3$]



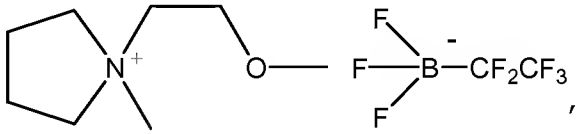
N1O2.222 [$C_2F_5BF_3$]



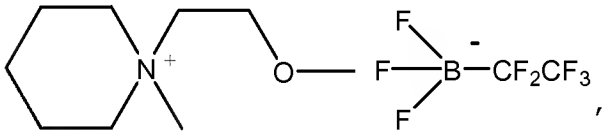
N1O1.112 [$C_2F_5BF_3$]



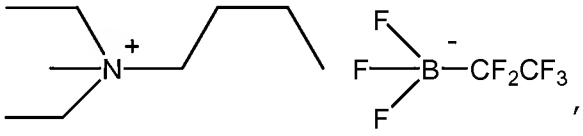
Py1O1.1 [$C_2F_5BF_3$]



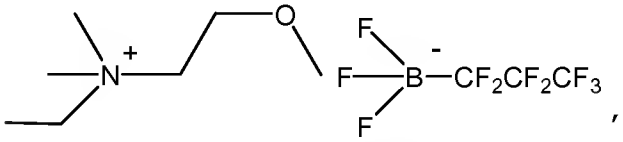
Py1O2.1 [$C_2F_5BF_3$]



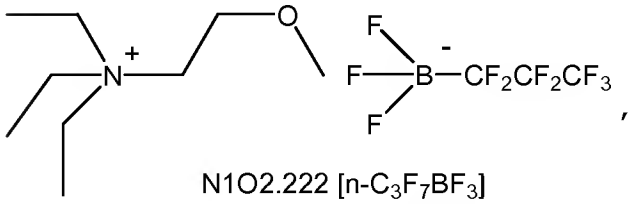
Pi1O2.1 [$C_2F_5BF_3$]



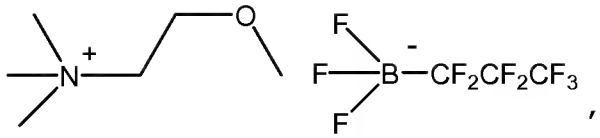
N1224 [$C_2F_5BF_3$]



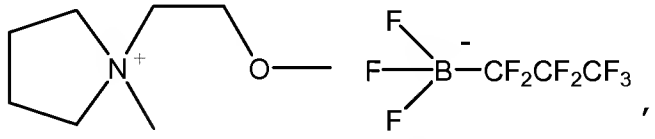
N1O2.112 [n-$C_3F_7BF_3$]



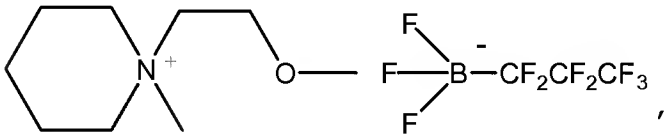
N1O2.222 [n-$C_3F_7BF_3$]



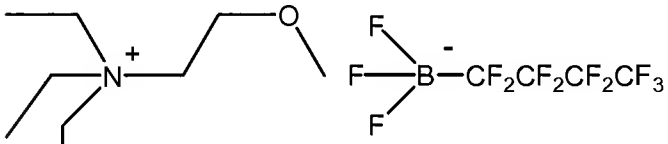
N1O2.111 [n-$C_3F_7BF_3$]



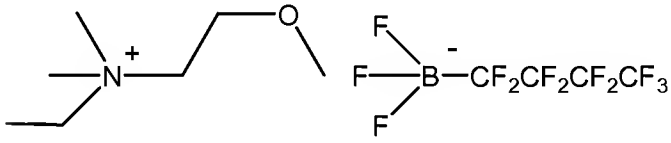
Py1O2.1 [n-$C_3F_7BF_3$]



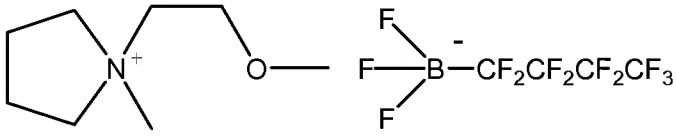
Pi1O2.1 [n-$C_3F_7BF_3$]



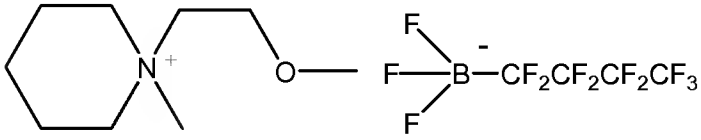
N1O2.222 [n-$C_4F_9BF_3$]



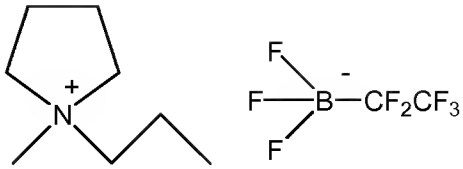
N1O2.112 [n-$C_4F_9BF_3$]



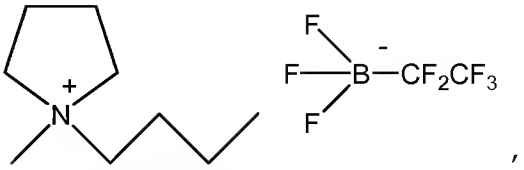
Py1O2.1 [n-$C_4F_9BF_3$]



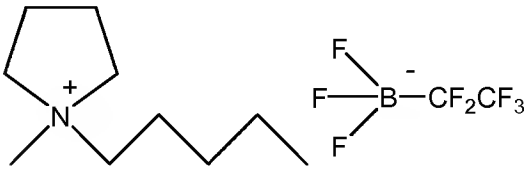
Pi1O2.1 [n-$C_4F_9BF_3$]



Py13 [$C_2F_5BF_3$]

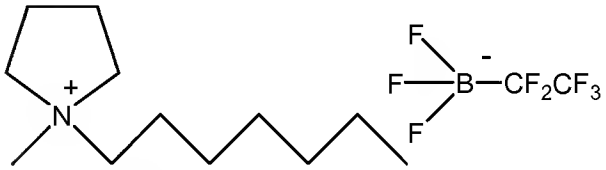


Py14 [$C_2F_5BF_3$]

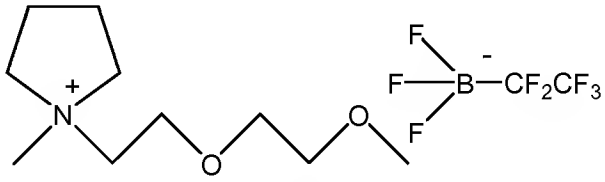


Py15 [$C_2F_5BF_3$]

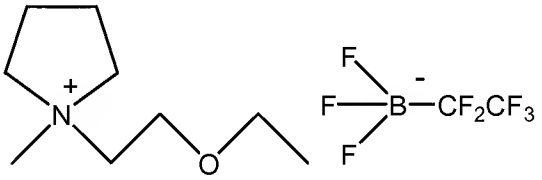
Py16 [$C_2F_5BF_3$]



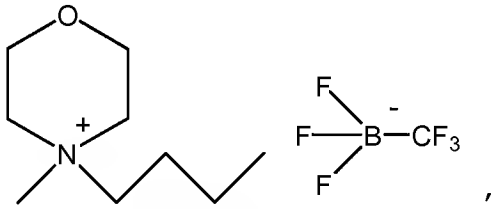
Py17 [$C_2F_5BF_3$]



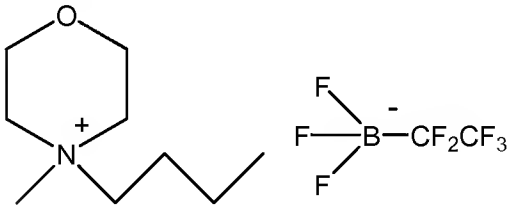
Py1.1O2O2 [$C_2F_5BF_3$]



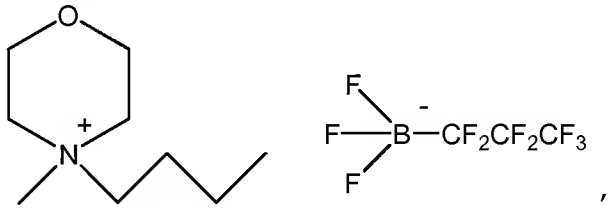
Py1.2O2 [$C_2F_5BF_3$]



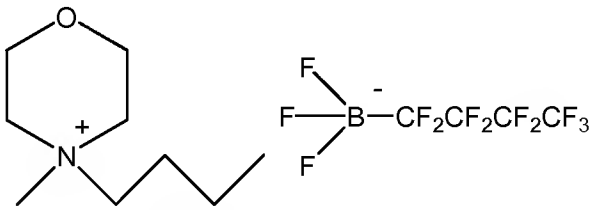
Mor14 [CF_3BF_3]



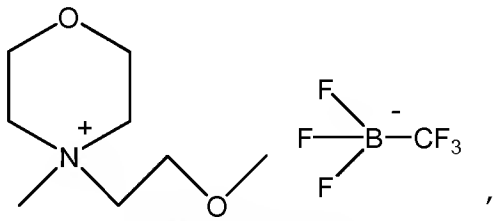
Mor14 [$C_2F_5BF_3$]



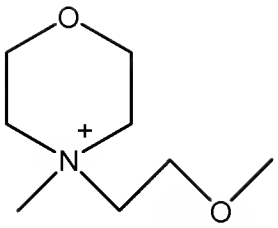
Mor14 [n-$C_3F_7BF_3$]



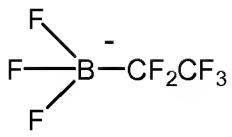
Mor14 [n-$C_4F_9BF_3$]



Mor1.1O2 [CF_3BF_3]



Mor1.1O2 [$C_2F_5BF_3$]



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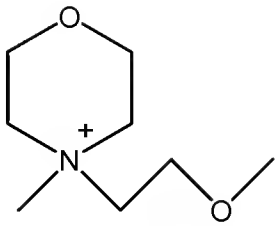
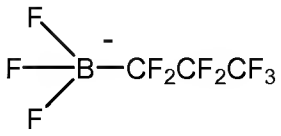


Mor1.1O2 [n-$C_3F_7BF_3$]



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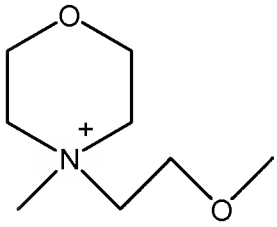

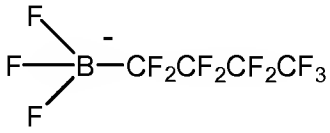

Mor1.1O2 [n-$C_4F_9BF_3$]

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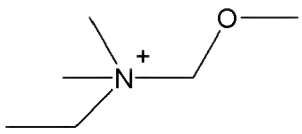
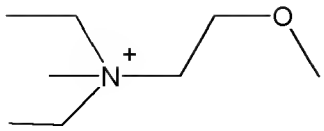
2-6. (Cancelled)

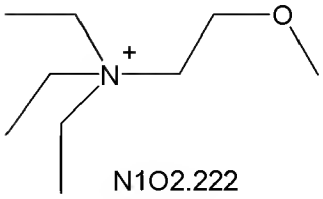
7. (Original) An electric double-layer capacitor comprising the ionic liquid according to claim 1.

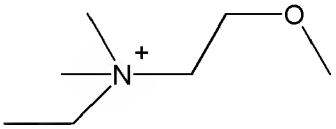
8. (Original) A lithium battery comprising the ionic liquid according to claim 1.

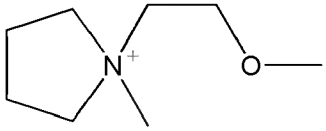
9. (Currently Amended) A method of producing ~~an~~the ionic liquid according to claim 1 comprising mixing a compound containing as an anionic component at least one anion represented by $[BF_3(C_nF_{2n+1})]^-$ wherein n represents 1, 2, 3 or 4 with a compound containing as a cationic component at least one organic ammonium ion selected from the group consisting of

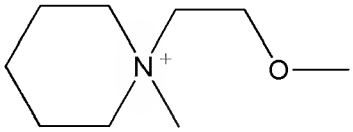

N1O1.112

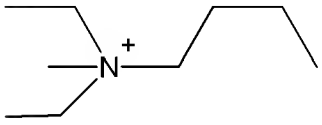

N1O2.122

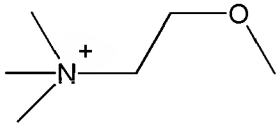

N1O2.222

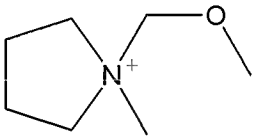

N1O2.112


Py1O2.1


Pi1O2.1


N1224


N1O2.111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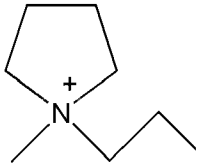
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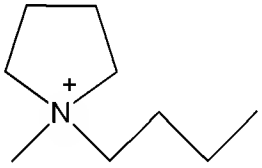
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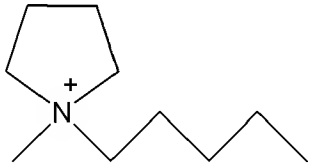
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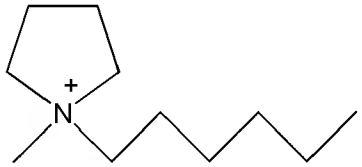
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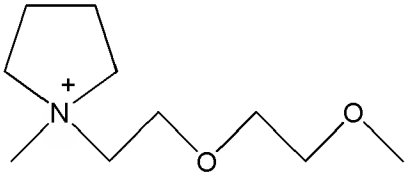
Py17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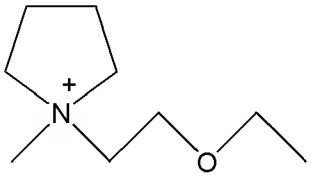
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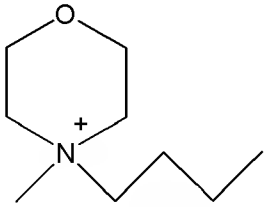
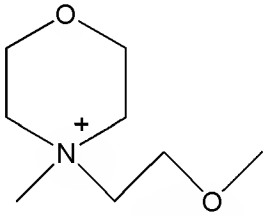

Mor14

, and


Mor1.1O2

~~represented by general formula (I):~~

~~$[NR^1R^2R^3R^4]^+$ (I)~~

~~wherein R^1 to R^4 are the same or different, each representing an alkyl, fluoroalkyl, alkoxy, polyether, or alkoxyalkyl group, or R^1 and R^2 taken together with the nitrogen atom may form a pyrrolidine, piperidine, or morpholine ring; provided that R^1 to R^4 satisfy the conditions (i) through (iii) shown below:~~

~~(i) when R1 and R2 taken together with the nitrogen atom form a pyrrolidine, piperidine, or morpholine ring, either R3 or R4 is an alkyl group with 3 or more carbon atoms or alkoxyalkyl group;~~

~~(ii) when R^1 and R^2 do not form a pyrrolidine, piperidine or morpholine ring, at least one of R^1 to R^4 is an alkoxy, polyether or alkoxyalkyl group; and~~

~~(iii) when R^1 to R^3 are the same or different, each being methyl or ethyl, R^4 is a C_{3-10} linear or branched alkyl group~~.